



Statement of Probable Construction Cost: Design Review

Project: School of Vet Med - 2nd Floor Remodel	Date: 19 March, 2015	Sheet:
For: Department of Facility Development	Strang Inc. Architecture, Engineering, Interior Design 6411 Mineral Point Road Madsion WI, 53705 (608) 276-9200	
At: University of Wisconsin - Madison Campus		
Project # DFD: 14B1V / Strang : 2014074		

TRADE:	Quantity no. units	unit meas	\$ per unit	Unit \$	Total Cost
Probable Cost of Construction	7139	sf	\$ 184.80		\$ 1,319,261
General Construction			\$ 95.42	\$ 681,239	
Demolition			\$ 19.42	\$ 138,646	
Mechanical systems			\$ 35.78	\$ 255,458	
Electrical Systems			\$ 21.67	\$ 154,713	
Piping			\$ 8.50	\$ 60,650	
Furniture			\$ -	\$ -	
Technology			\$ 4.00	\$ 28,556	
General Conditions	1	EA	6.0%	\$ 74,675	
Cost Development Detail					
DEMOLITION					\$ 138,646
Roof / Solar Panel Assembly	3550	SF	14	\$ 49,700	
Floor / Roof Assembly (Tapered Cement)	5120	SF	12	\$ 61,440	
Masonry Veneer	2128	SF	2	\$ 4,256	
Mechanical - Solar Panel Area	3550	SF	1	\$ 3,550	
Mechanical - Mechanical Room	210	Hrs	60	\$ 12,600	
Electrical	3550	SF	1	\$ 3,550	
Piping	3550	SF	1	\$ 3,550	
GENERAL CONSTRUCTION					
Floor Assembly					\$ 48,606
Laytex underlayment/leveler	5134	SF	5.50	\$ 28,237	
Floor Prep (Grinding)	5134	SF	3.50	\$ 17,969	
Trenching/Coring for Power, A/V & Plumbing	8	Cores	300	\$ 2,400	
Super Structure (Flat Roof) (Columns, Joist, Decking, Beams)					
Roof (Material)	41500	Lbs	1	\$ 41,500	
Roof (Labor)	240	Hrs	100	\$ 24,000	
Roof (Equipment)	80	Hrs	200	\$ 16,000	
Fire Proofing					
Beams (2" Coating = 2hr Fire Resistive Rating)	1575	SF	2.50	\$ 3,938	
Beams/Rafters (1" Coating = 1 Hr Rating)	2575	SF	1.65	\$ 4,249	
Columns (2" Coating = 2hr Fire Resistive Rating)	300	SF	3.00	\$ 900	
Roof Decks (1" Coating = 1 Hr Rating)	5600	SF	1.65	\$ 9,240	



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TRADE:	Quantity no. units	unit meas	\$ per unit	Unit \$	Total Cost
Enclosure					\$ 320,588
Roof Assembly					
Standing Seam Metal Roof					
Metal Deck	3800	SF	4	\$ 15,200	
4" Rigid Insulation	3800	SF	3	\$ 11,400	
Standing Seam Roof Assembly	3800	SF	15	\$ 57,000	
Lower Roof Edge	177	LF	15	\$ 2,655	
Flashing @ Masonry	206	LF	10	\$ 2,060	
Fully Adhered EPDM Assembly					
4" Rigid Insulation	1560	SF	3	\$ 4,680	
Metal Deck	1560	SF	4	\$ 6,240	
60 Mil EPDM w/ Recovery Board	1560	SF	6	\$ 9,360	
Perimeter Flashing	334	LF	2	\$ 668	
Roof Edge/Flat Roof Perimeter					
Façade / Curtain Wall Perimeter					
Roof Edge/Upper Facia (Alum Composite)	531	SF	40	\$ 21,240	
Lower Facia	177	LF	35	\$ 6,195	
Upper Wall					
Brick Veneer, Vapor Barrier, Sheathing, Studs (27' x 152')	1976	SF	29.91	\$ 59,100	
Rigid Insulation (1 1/2" R-10)	1976	SF	1.25	\$ 2,470	
Metal Facia & Soffit (5' x 152')	760	SF	15	\$ 11,400	
End Returns - Remove CMU, Install Brick	2	Sides	2,200	\$ 4,400	
Brick Material (\$1089/Thousand)	2123	SF	4.91	\$ 10,424	
Storefront					
South Façade	2184	SF	44	\$ 96,096	
Sun Shade	88	LF	75		
Light Shelf	182	LF	50		
Interior Partitions					\$ 56,185
Non-rated, 5/8" GWB on Metal Studs					
Clinical Skills	737	SF	8	\$ 5,896	
Student Study	455	SF	8	\$ 3,640	
Active Learning		SF	8	\$ -	
Other	616	SF	8	\$ 4,928	
Non-rated, 5/8" GWB on Metal Furring					
Clinical Skills	1068	SF	4.50	\$ 4,806	
Active Learning	984	SF	4.50	\$ 4,428	
1 Hr rate, 5/8" GWB on Metal Studs					
AL, SS, CLS, Meditation	1534	SF	10.50	\$ 16,107	
Storage, Janitor, IT, Testing, Consel, Kitchen	1560	SF	10.50	\$ 16,380	



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TRADE:	Quantity no. units	unit meas	\$ per unit	Unit \$	Total Cost
Doors and Hardware					\$ 25,700
HM, Flush (Testing, Janitor, IT, Microscope, Counsel, Meditation, Office, Storage)	8	EA	1,500	\$ 12,000	
HM, Flush 1Hr (Storage)	1	Pair	3,500	\$ 3,500	
H.M. Half Lite	2	EA	1,800	\$ 3,600	
H.M. Half Lite, Sidelight & Transom	1	Pair	3,300	\$ 3,300	
H.M. Half Lite, Sidelight & Transom	1	Pair	3,300	\$ 3,300	
Finishes					
Flooring					\$ 18,927
Vinyl Composition Tile					
Clinical Skills	2155	SF	3	\$ 6,465	
Office, Storage/Prep	157	SF	3	\$ 471	
Student Break	222	SF	3	\$ 666	
Reading	111	SF	3	\$ 333	
Existing Corridors	454	SF	3	\$ 1,362	
Carpet Tile					
Active Learning	2048	SF	2.5	\$ 5,120	
Student Study	931	SF	2.5	\$ 2,328	
Testing, Counseling, Meditation, Microscope	591	SF	2.5	\$ 1,478	
Existing, Exposed Copncrete					
Storage	305	SF	1.5	\$ 458	
IT Closet	45	SF	1.5	\$ 68	
Janitor	120	SF	1.5	\$ 180	
Ceilings					\$ 26,931
Typical 2'x4' Accoustical Panels					
Existing Corridors	454	SF	3.25	\$ 1,476	
Storage	305	SF	3.25	\$ 991	
IT Closet	45	SF	3.25	\$ 146	
Janitor	120	SF	3.25	\$ 390	
Typical 2'x2' Accoustical Panels					
Testing, Counseling, Meditation, Microscope	591	SF	3.85	\$ 2,275	
Student Break	222	SF	3.85	\$ 855	
Reading	111	SF	3.85	\$ 427	
Clinical Skills	2312	SF	3.85	\$ 8,901	
Active Learning	2048	SF	3.85	\$ 7,885	
Student Study	931	SF	3.85	\$ 3,584	



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TRADE:	Quantity no. units	unit meas	\$ per unit	Unit \$	Total Cost
SPECIALTIES					
CASEWORK - PLAM (Base, Bench, Uppers [uno])					\$ 2,100
Clinical Skills					
Work Stations					
36" Tall Cabinet	10	EA	525		
48" Base w/ Top (doors only)	10	EA	510		
36" Base w/ Top (Doors and Drawers)	10	EA	550		
48" Wall Cabinet	9	EA	310		
48" Wall Shelf	9	EA	175		
Benchtop & Sink Cabinets	12	LF	175	\$ 2,100	
Additional Tall Cabinets	6	EA	525		
Back Pack Cubbies	3	EA	400		
Instructor's Station	11	LF	225.00		
Office		EA			
Rolling Shelves - 2ft x 6ft x 60" High	3	EA	360		
Kitchenette - Base & Wall Cabinets	11	LF	200		
Testing		LF			
Student Break	18	LF	150		
Reading		LF			
Computers near student mailboxes		LF			
Reading Room - Shelving (Surface Mount)	220	LF	6		
Multi-Head Microscope - Wall Shelving	50	LF	6		
Sun-Control / Roller Shades					\$ 7,700
Clerestory Glass (Fixed)	35	EA	50	\$ 1,750	
Lower Glass (5'x7' Manual)	17	EA	350	\$ 5,950	
Writeable Surfaces					\$ -
Student Study - Writable Glass (3'x4')		EA	600	\$ -	
Clinical Skills - Writable Glass (3'x4')		EA	600	\$ -	
Reading Room Corridor - Glass (28'x8')		SF	75	\$ -	
Mechanical Systems					\$ 255,458
Clinical Skills	2	VAV Boxes	5,250	\$ 10,500	
Student Study	1	VAV Boxes	5,250	\$ 5,250	
Active Learning	2	VAV Boxes	5,250	\$ 10,500	
Balance of Programmed Spaces	1	VAV Boxes	5,250	\$ 5,250	
Ductwork (Supply and Return)	7139	SF	20	\$ 142,780	
Piping	6982	SF	4	\$ 27,928	
Replace Return Fan REF-1	27000	CFM	1	\$ 27,000	
REF-1 Installation	1	LS	10,500	\$ 10,500	
Return Air Ductwork	1	Ls	5,250	\$ 5,250	
Retrofit Controls	1	LS	10,500	\$ 10,500	



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TRADE:	Quantity no. units	unit meas	\$ per unit	Unit \$	Total Cost
Piping Systems					\$ 60,650
Hand Sinks - Clinical Skills	2	EA	4,000	\$ 8,000	
Sink w/ Ginder - Student Break Area	1	EA	5,500		
Janitors Closet (Floor Sink)	1	EA	4,500	\$ 4,500	
Sanitary - Waste & Vent	150	LF	33	\$ 4,950	
Supply - Hot & Cold (Copper Piping)	750	LF	13	\$ 9,750	
Sanitary - Waste & Vent	50	LF	33	\$ 1,650	
Supply - Hot & Cold (Copper Piping)	150	LF	13	\$ 1,950	
Roof Drains	3	EA	500	\$ 1,500	
Storm Water Piping	210	LF	50	\$ 10,500	
Compressed House Air (100 psi)	4	Outlets	250	\$ 1,000	
Compressed Air Piping (3/4")	150	LF	25	\$ 3,750	
Compressed Air Piping (1/2")	40	LF	20	\$ 800	
Bottled Nitrogen System	4	Outlets	250	\$ 1,000	
Auto Switch Manifold & Tank Holders	1	System	1,200	\$ 1,200	
Nitrogen Piping (3/4")	150	LF	25	\$ 3,750	
Nitrogen Piping (1/2")	40	LF	20	\$ 800	
Vaccum System	4	Outlets	250	\$ 1,000	
Vaccum Piping (3/4")	150	LF	25	\$ 3,750	
VaccumPiping (1/2")	40	LF	20	\$ 800	
Electrical					
Power Distribution					\$ 80,619
400 Amp Feeder + Sub-Panel	1	EA	36,000	\$ 36,000	
General Power	7139	SF	6.25	\$ 44,619	
Lighting					\$ 58,388
General Lighting	7139	SF	6.75	\$ 48,188	
Emergency Egress and Exit Lighting	1	System	5,200	\$ 5,200	
Lighting Controls	1	System	5,000	\$ 5,000	
Fire Alarm					\$ 15,706
	7139	SF	2.20	\$ 15,706	



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TRADE:	Quantity no. units	unit meas	\$ per unit	Unit \$	Total Cost
Furniture					\$ -
Active Learning - Backbone Table	15	EA	2,400		
Active Learning - Headwall Panel	11	EA	1,000		
Active Learning - Double Headwall Panel	2	EA	1,750		
Active Learning Chairs	96	EA	250		
Active Learning - Instructor Podium	1	EA	1,200		
Active Learning - Instructor Stool	1	EA	270		
Active Learning - White Boards	96	EA	80		
Active Learning - 8'-0" Rail	15	EA	150		
Active Learning - Easels	5	EA	80		
Study Area - Lg Tables	3	EA	650		
Study Area - Sm Tables	5	EA	650		
Study Area - Side Table	3	EA	300		
Study Area - Cocktail Table	1	EA	300		
Study Area - Chairs	17	EA	250		
Study Area - Tablet Lounge Chairs	2	EA	1,200		
Study Area - Soft Seating - Stool	2	EA	400		
Study Area - Soft Seating - Bench	18	EA	1000		
Clinical Skills - S/S Gurney	10	EA	600		
Clinical Skills - Stools	20	EA	110		
Clinical Skills - Instructor Chair	2	EA	270		
Clinical Skills - Peg Boards	2	EA	500		
Meditation - Lounge Chair	2	EA	1,000		
Mediation - Side Table	1	EA	300		
Counseling - Writing Desk	1	EA	650		
Counseling - Task Chair	1	EA	250		
Counseling - Lounge Chair	1	EA	1,000		
Counseling - Soft Seating - Sofa	1	EA	1,500		
Counseling - Side Table	1	EA	300		
Counseling - Cocktail Table	1	EA	300		
Reading - Task Chair	1	EA	250		
Testing - Task Chair	1	EA	250		
Microscope - Task Chair	24	EA	250		
Corridor - Task Chair	4	EA	250		
Technology / Equipment					\$ 28,556
Active Learning - Head End	Included below				
Active Learning Seats (Including Instructor)	91	EA	1,716		
Active Learning - Document Camera (Ceiling)	Included above				
Clinical Skills - Head End	Included below				
Clinical Skills - Monitor & Connections	1	System	70,100		
Clinical Skills - Document Camera (Ceiling)	Included above				
Microscope - Relocate Exist'g Screen & Projectors	1	Job	1,000		
Study Area - Monitor & Connections		EA	2,500		
Voice / Data (Conduit, Boxes & Wiring)	7139	SF	4	\$	28,556



DIVISION OF INDUSTRY SERVICES
PO BOX 7162
MADISON WI 53707-7162
Contact Through Relay
www.dsps.wi.gov/sb/
www.wisconsin.gov

Scott Walker, Governor
Dave Ross, Secretary

December 04, 2014

PRELIMINARY CONSULTATION

CUST ID No. 831264

LARRY BARTON
STRANG INC
6411 MINERAL POINT RD
MADISON WI 53705

SITE:

Uw Madison - Veterinary Medicine
2015 Linden Dr
City of Madison, 53706
Dane County

Fee Required \$	80.00
Fee Received \$	80.00
Balance Due \$	0.00

WiSMART code: 7648

FOR:

Facility: 520316 UW MADISON - VETERINARY MEDICINE 2015 LINDEN DR MADISON 53706
Object Type: Building ICC Regulated Object ID No.: 1514004 Code Applies Date: 11/24/14
Preliminary Consultation; Alteration Level: 2; Major Occupancy: Business;
Type IB Fire Resistive class of construction; Alteration plan; 7,143 project sq ft; Unsprinklered;
Occupancy: B Business; Allowable area determined by: Unseparated Use

Following is a documentation of preliminary consultation on your plans at our meeting on December 04, 2014.

This letter reflects answers given to questions based on what was presented at the time of the meeting. The designer needs to evaluate if subsequent design changes or more information on the project has an effect on the answers below.

This review was conducted using the currently adopted code. Future code amendments adopted prior to the submittal of full plans for review will apply to those plans.

Reminders

- **IEBC 701.1** Per the definition of Level 2 alteration in IEBC 404, this work is considered a Level 2 alteration project and is subject to the requirements of IEBC ch. 7, as well as ch. 6.
- **IEBC 703.4** Provide interior finishes per the IBC chapter 8 in corridors and exits throughout the work area or treat with a fire retardant coating.

When scheduling a plan review, include on your application the Transaction ID from the box above so that the review is linked to other site information and assigned to the appropriate reviewer. Also INCLUDE A COPY OF THIS LETTER when submitting plans pertaining to this project.

Inquiries concerning this correspondence may be made to me at the telephone number listed below, or at the address on this letterhead.

Sincerely,

David Wallace, P.E.
Engineering Consultant , Integrated Services
(608)261-6540 , 7:45-4:30
david.wallace@wisconsin.gov

Identification Numbers
Transaction ID No. 2483098
Site ID No. 523123
Please refer to both identification numbers, above, in all correspondence with the agency.



WEPA/NEPA
EVALUATION OF
ENVIRONMENTAL SIGNIFICANCE
OF FACILITIES DEVELOPMENT ACTIONS

UWSA rev. 7/2000
eis-eval.doc

UNIVERSITY OF WISCONSIN - MADISON

Project Name: Veterinary Medicine - 2nd Floor Remodeling

CRITERIA: Preliminary investigation of environmental impact (to be completed by the campus)

Does the proposed action:	Yes	No	Un- known	Comments
A. Create irreversible environmental effects?		X		
B. Stimulate secondary effects?	X			Additional funds will be required to furnish & maintain the space, but should be minimal.
C. Create a new environmental effect?		X		
D. Affect geographically scarce resources?		X		
E. Form a precedent?		X		
F. Have reasonable alternatives?		X		
G. Become highly controversial?		X		
H. Conflict with long-range plans or policies?		X		
I. Have major cumulative impacts?		X		
J. Affect historical or archeological sites?		X		
K. Foreclose future options?	X			The project forecloses the replacement of the failing solar panels with photovoltaic panels but has a long payback.
L. Cause considerable energy impacts?		X		
M. Cause considerable economic impacts?		X		
N. Other (state concern)		X		

ON THE BASIS OF THIS PRELIMINARY EVALUATION, THIS PROJECT IS CONDITIONALLY DETERMINED AND IDENTIFIED AS
REQUIRING ADDITIONAL ENVIRONMENTAL CONSIDERATION FOLLOWING PROCEDURES DEFINED AS A:

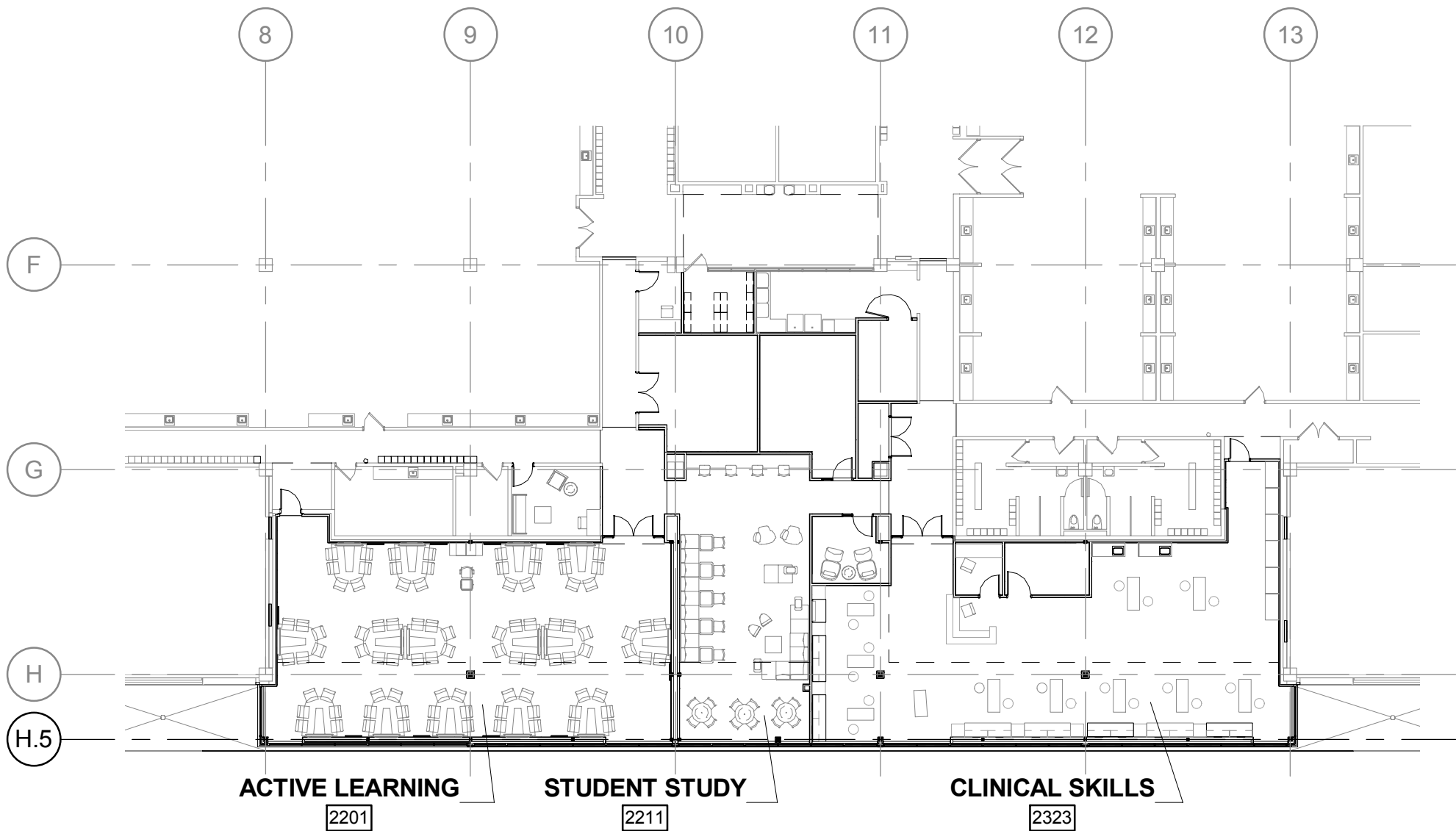
- ☐ Type I Action - EIS Required. To be prepared in accordance with WEPA/NEPA guidelines.
- ☐ Type II Action - EIA screening worksheet written report to be prepared to describe in adequate detail the study and development of alternatives..
- ☒ Type III Action - No further environmental documentation required. A finding of non-significant impact shall be on record prior to project implementation.

Gary A. Brown
Campus Environmental Impact Coordinator

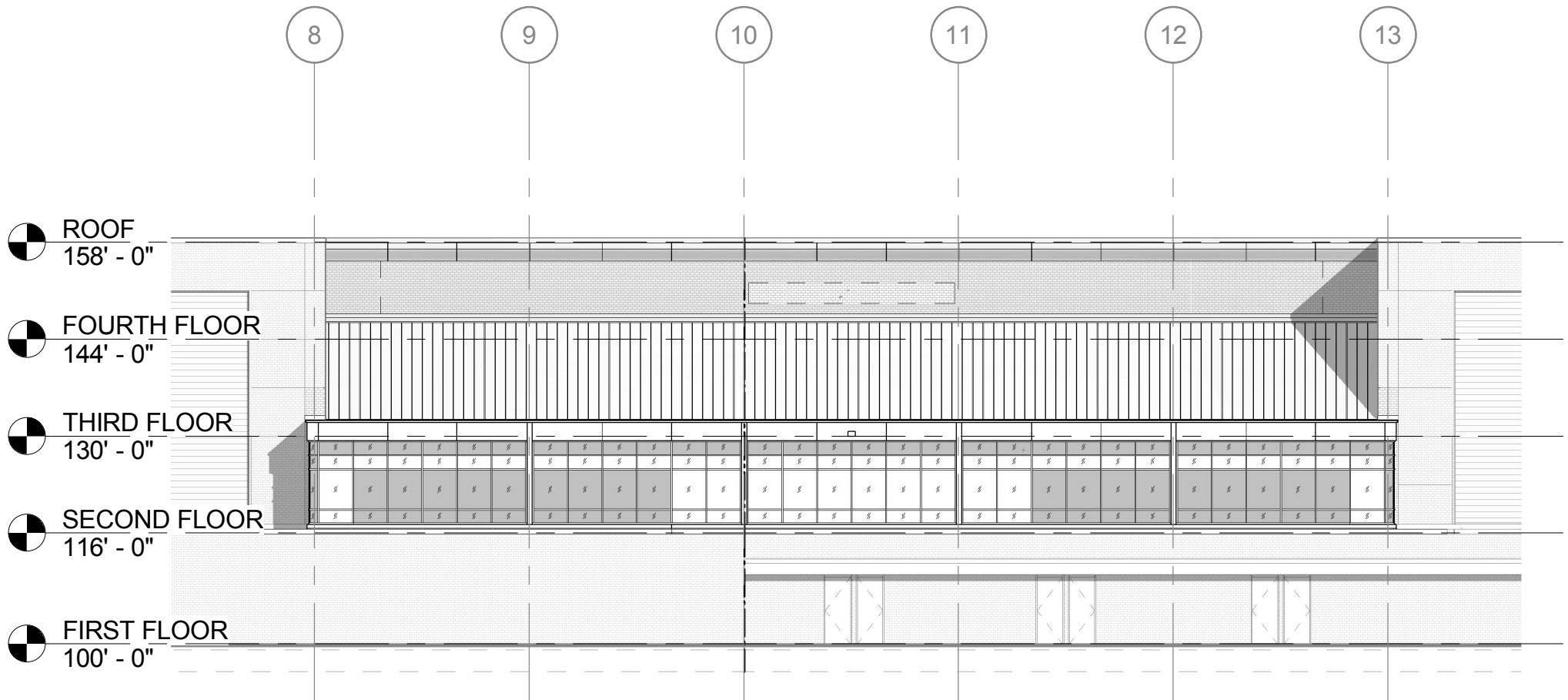
3/9/15
Date

UW System Environmental Affairs Officer

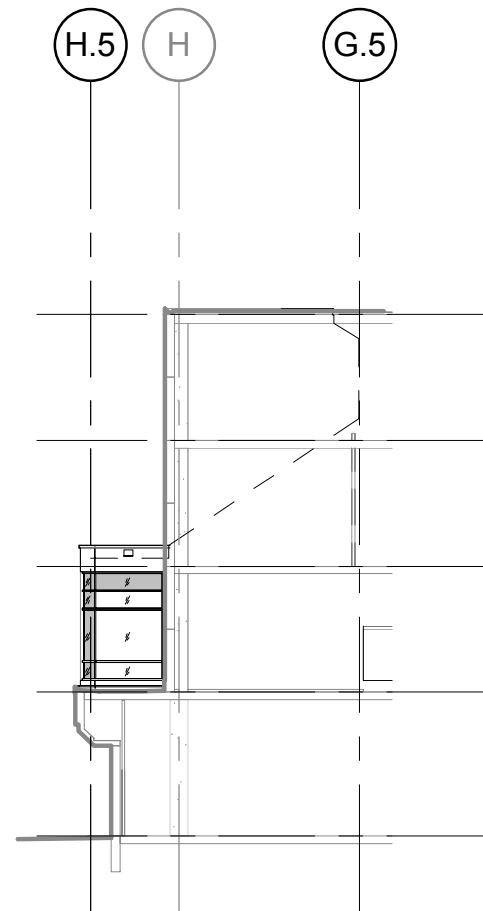
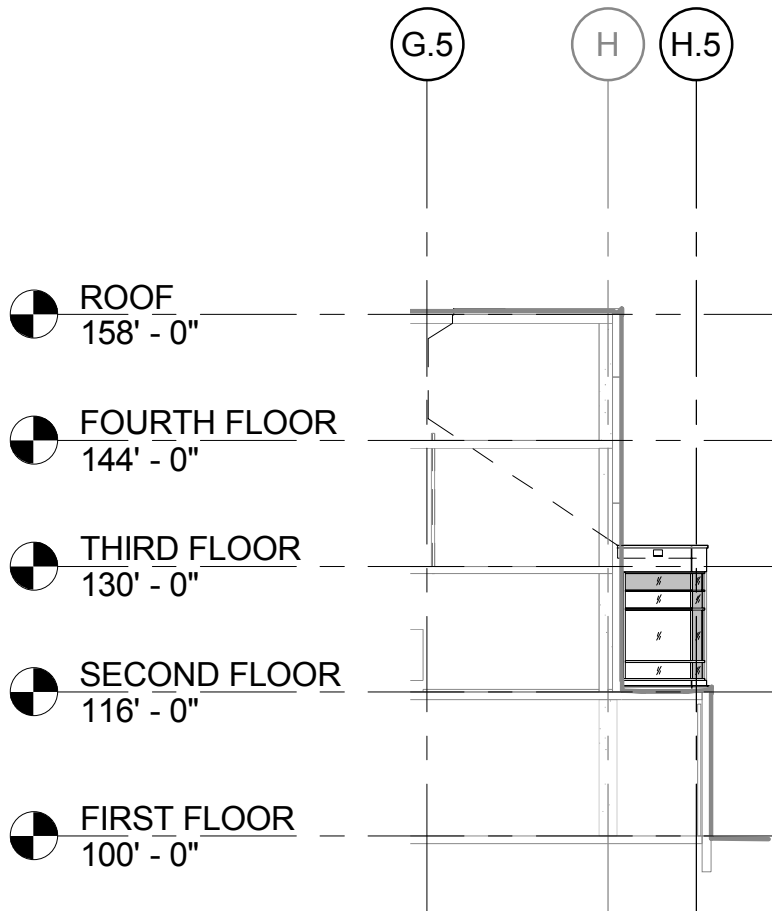
Date



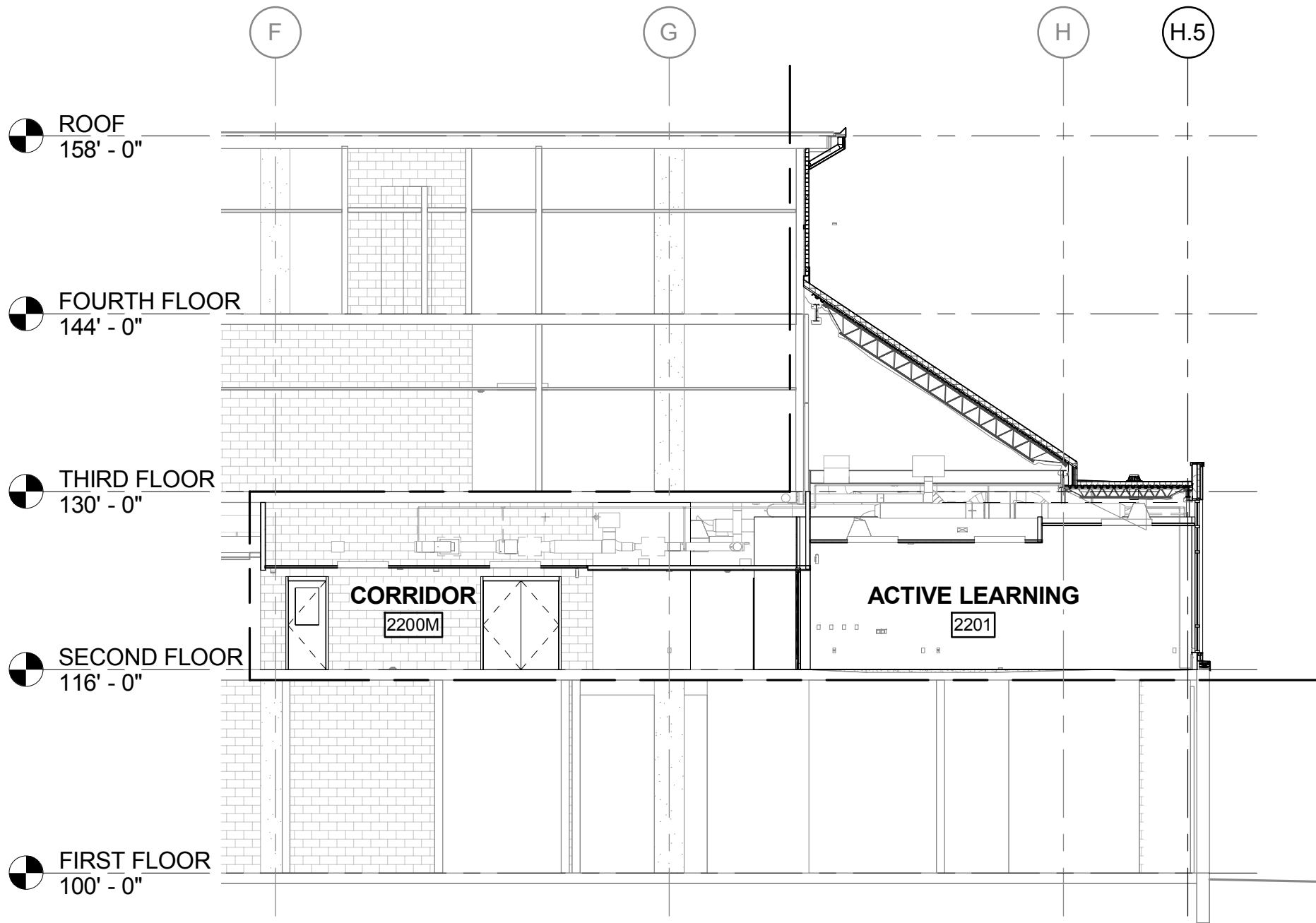
PARTIAL SECOND FLOOR PLAN



PARTIAL SOUTH ELEVATION



PARTIAL WEST AND EAST ELEVATIONS



BUILDING SECTION